

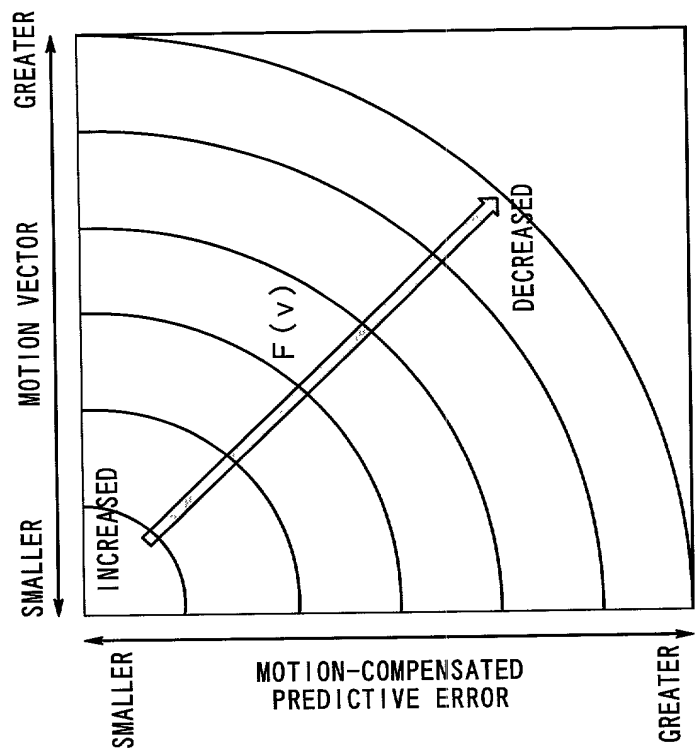
DIFFERENCE VALUE (= INTERFRAME DIFFERENCE -
MOTION-COMPENSATED PREDICTIVE ERROR)

FIG. 1

1. The number of repeated B pictures is determined from the relation diagram Z1.
 2. The number of repeated B pictures is determined from the inequality Z2.
 3. The number of repeated B pictures is determined from the inequality Z2.

F: DIRECTION FOR CONTROLLING THE NUMBER OF REPEATED B PICTURES
 F(v): DIRECTION FOR CONTROLLING THE NUMBER OF REPEATED B PICTURES DETERMINED FROM RELATION DIAGRAM Z1
 F(e): DIRECTION FOR CONTROLLING THE NUMBER OF REPEATED B PICTURES DETERMINED FROM INEQUALITY Z2

$$F = F(v) + F(e)$$



$F(e) = \text{INCREASE: DIFFERENCE VALUE} > \text{THRESHOLD}$
 $F(e) = \text{DECREASE: DIFFERENCE VALUE} < \text{THRESHOLD}$
 DIFFERENCE VALUE (= INTERFRAME DIFFERENCE - MOTION-COMPENSATED PREDICTIVE ERROR)

Z1 RELATION DIAGRAM

FIG. 2

1. A system for detecting a change in a scene and inserting a picture of a person into a video stream. The system includes a scene change detecting means (21) and a picture insertion control means (22). The scene change detecting means (21) is connected to the picture insertion control means (22). The picture insertion control means (22) is connected to a picture insertion means (23). The picture insertion means (23) is connected to a video stream (24). The video stream (24) is connected to a display (25). The display (25) displays the video stream (24) with the picture of a person inserted.

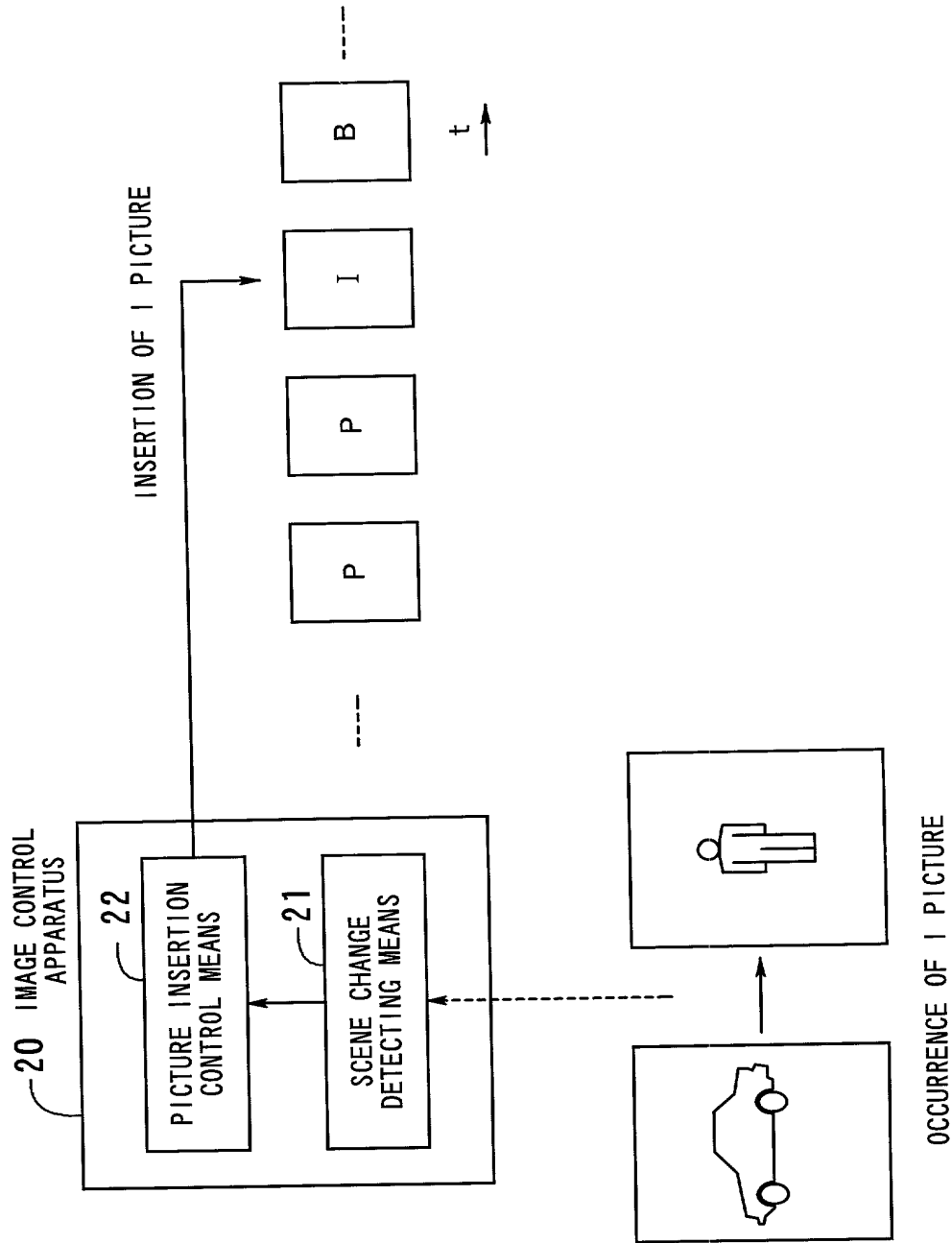
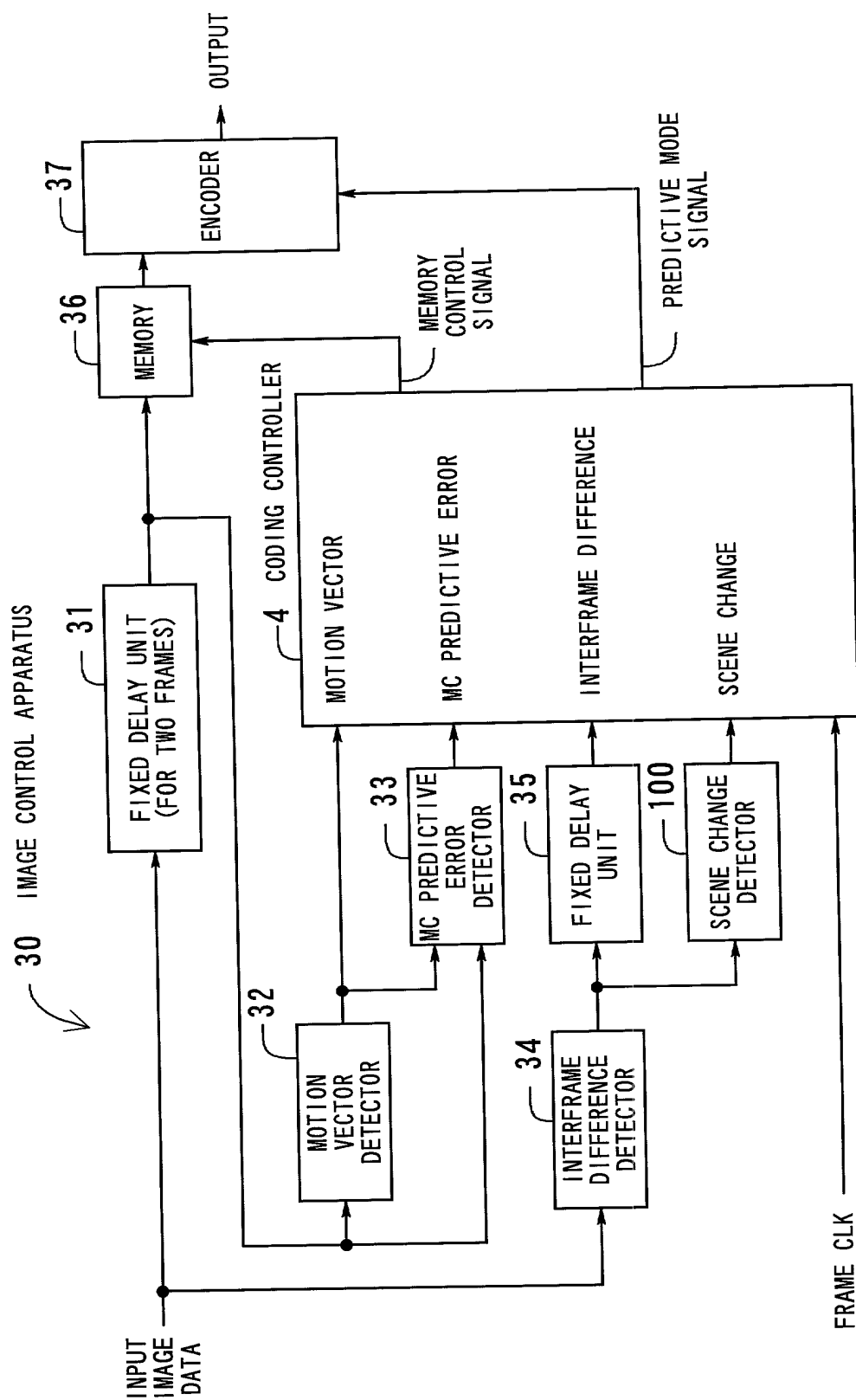


FIG. 3



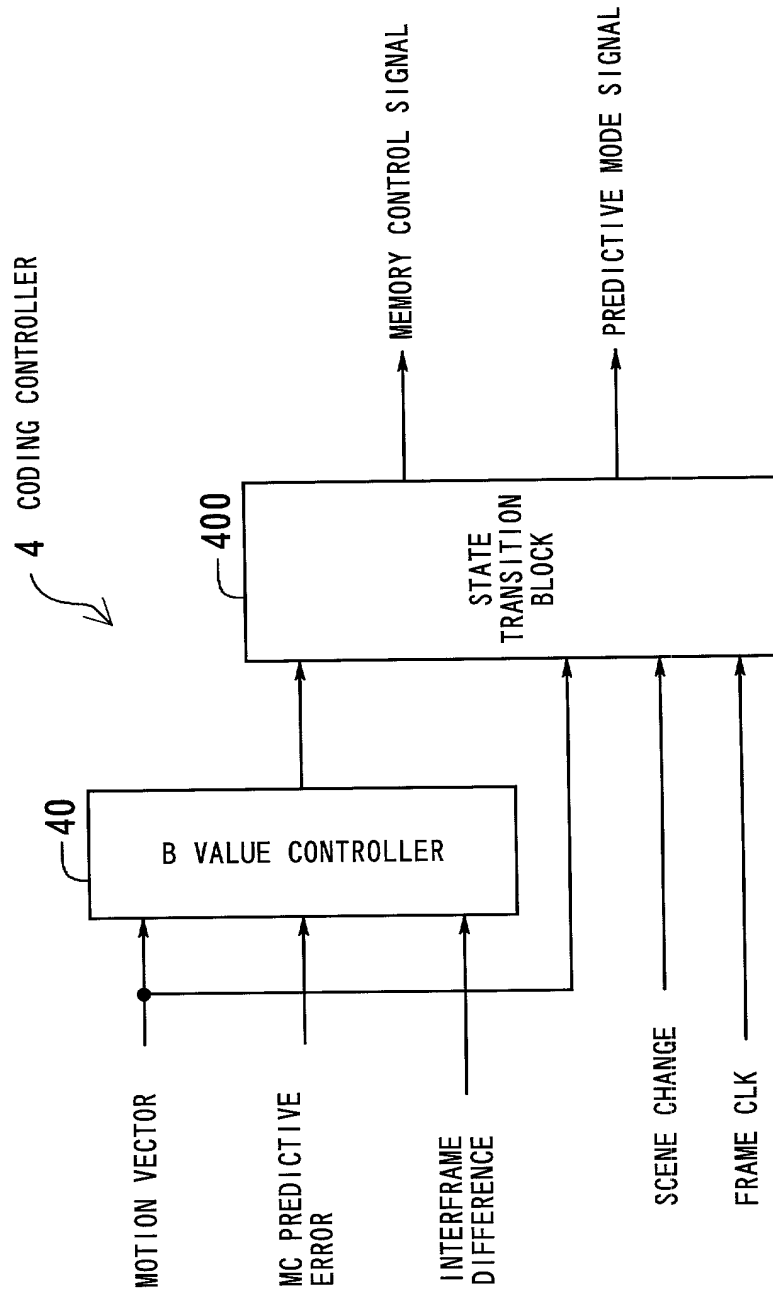


FIG. 5

40 B VALUE CONTROLLER

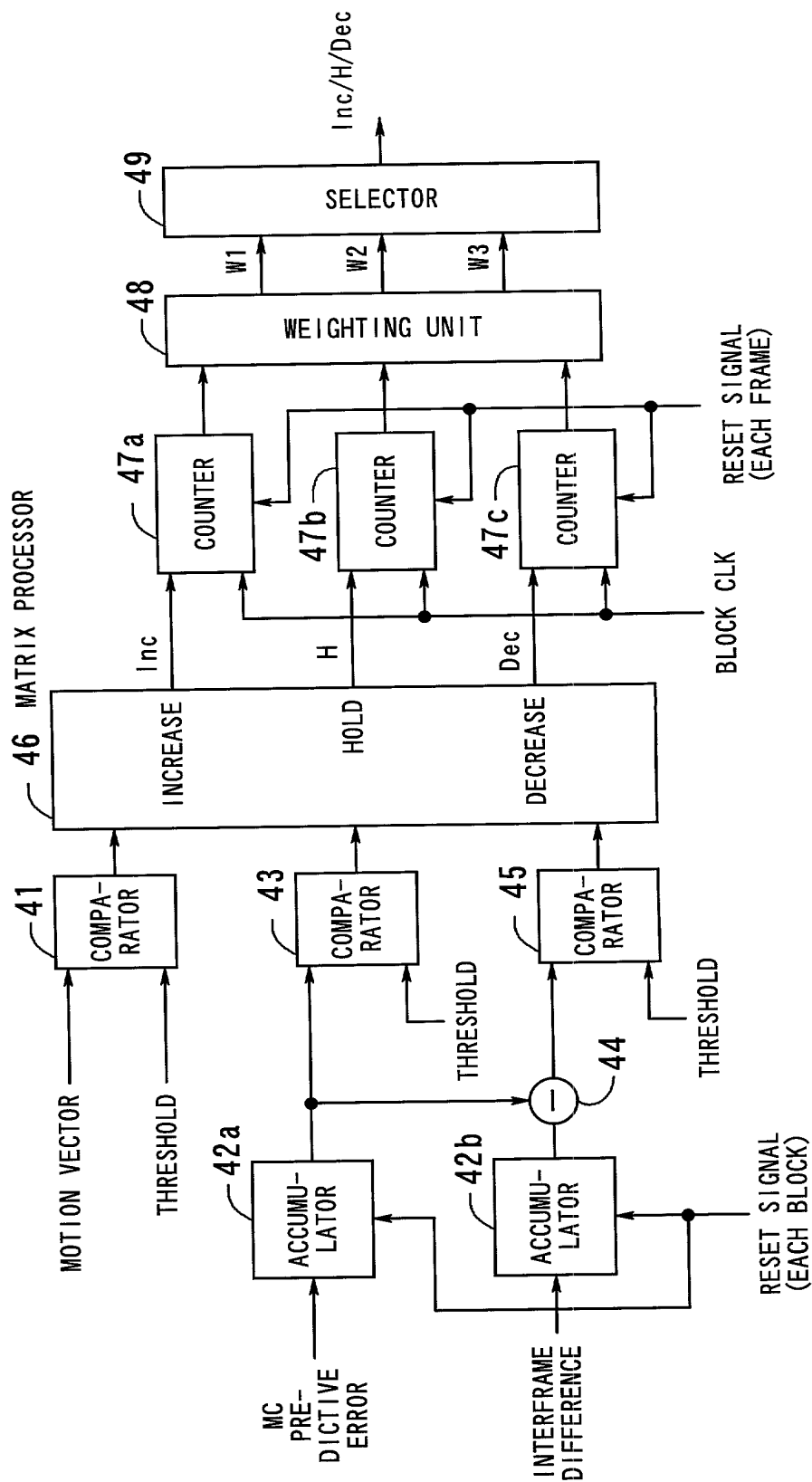


FIG. 6

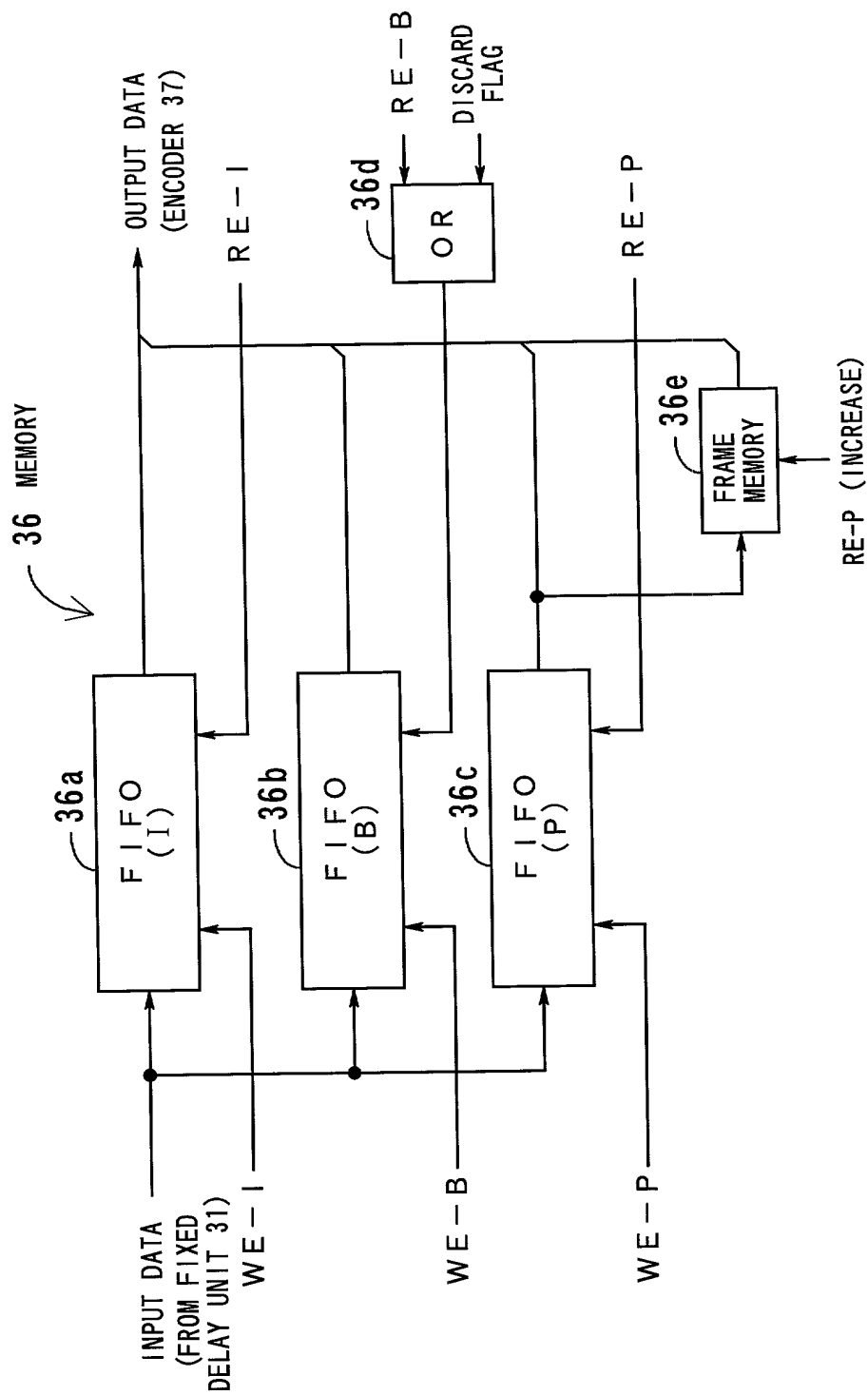
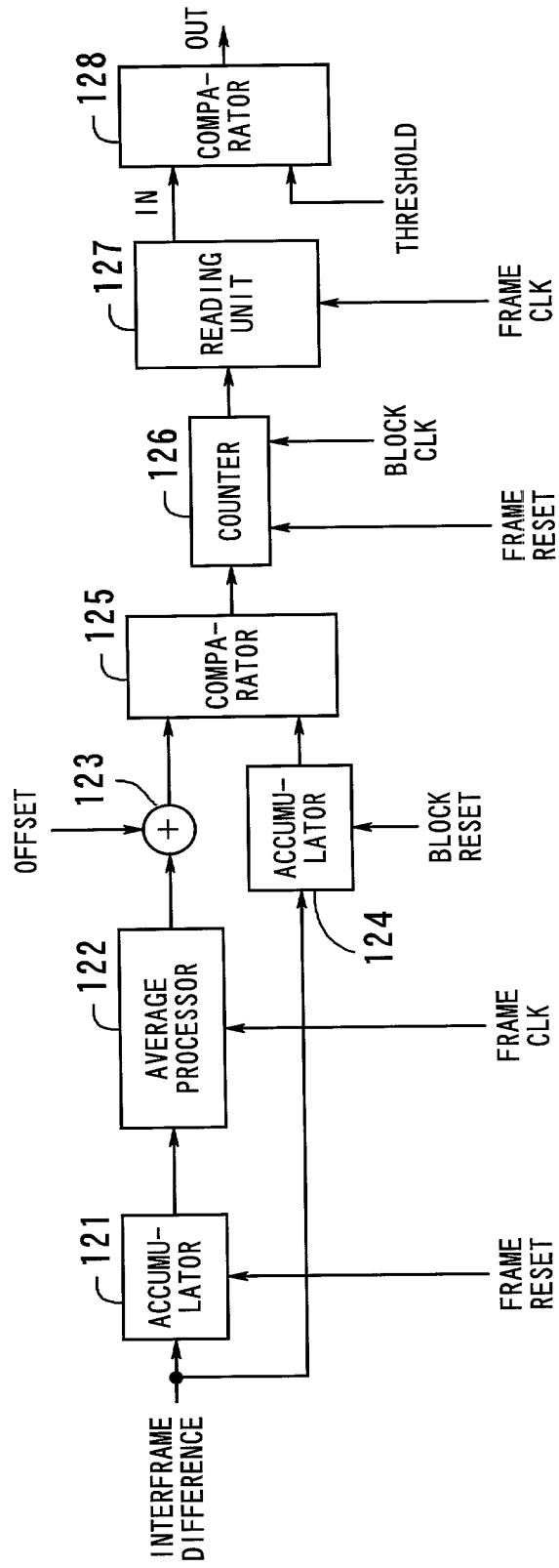


FIG. 7

100-2 SCENE CHANGE DETECTOR



OUT: 1 (IN > THRESHOLD)

FIG. 10

100-3 SCENE CHANGE DETECTOR

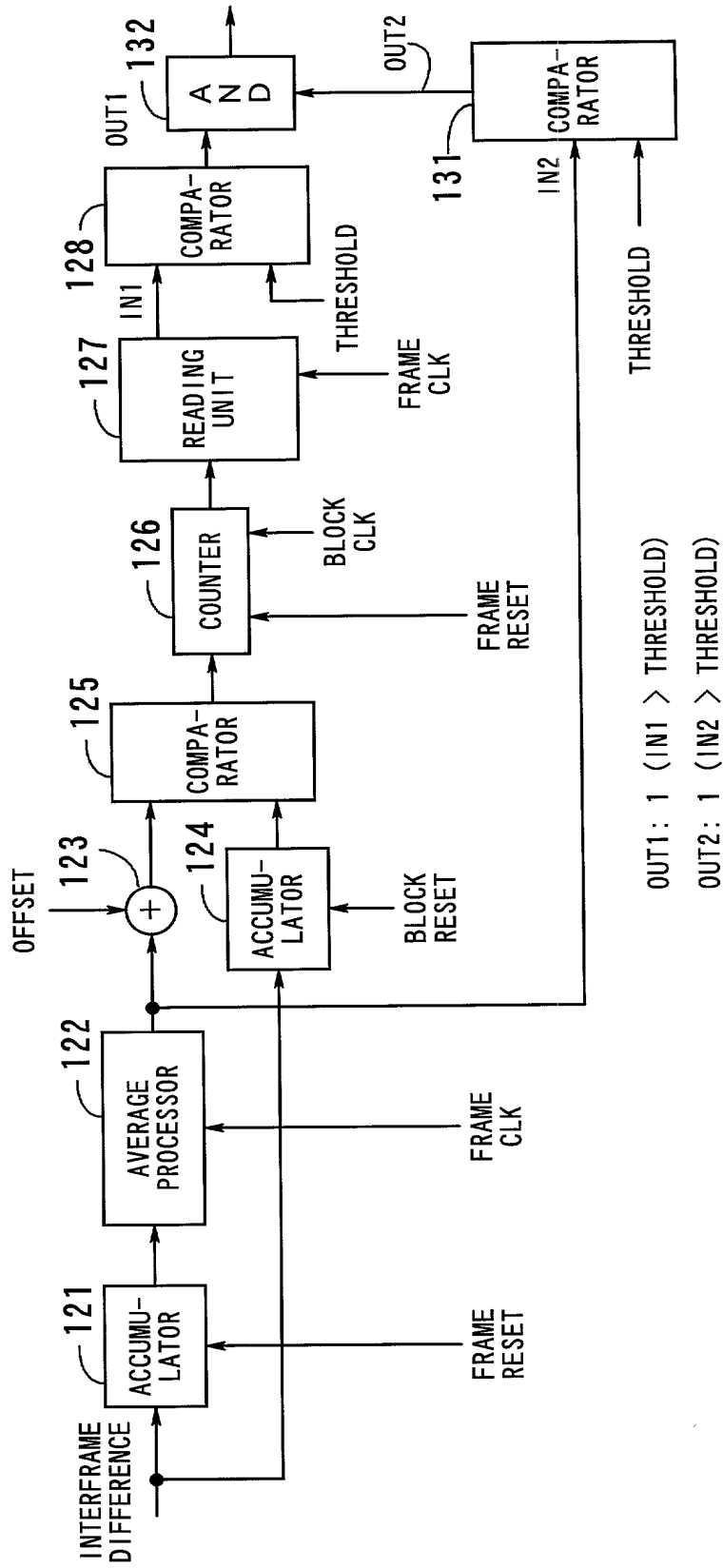


FIG. 11

100-4 SCENE CHANGE DETECTOR

100-4 SCENE CHANGE DETECTOR

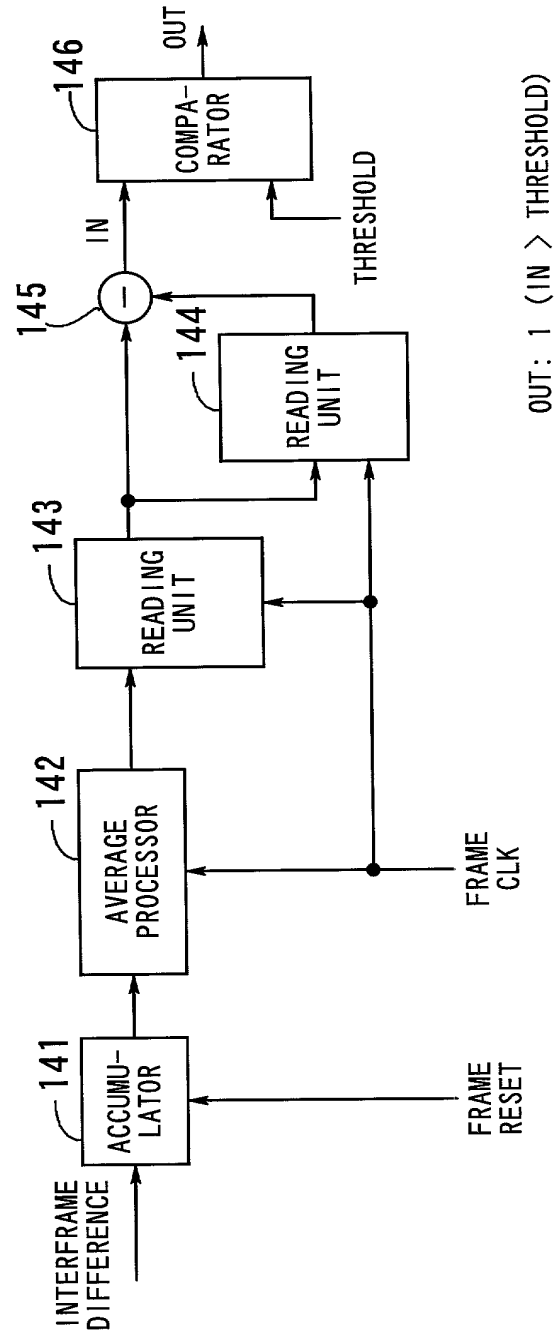


FIG. 12

OUT: 1 (IN > THRESHOLD)

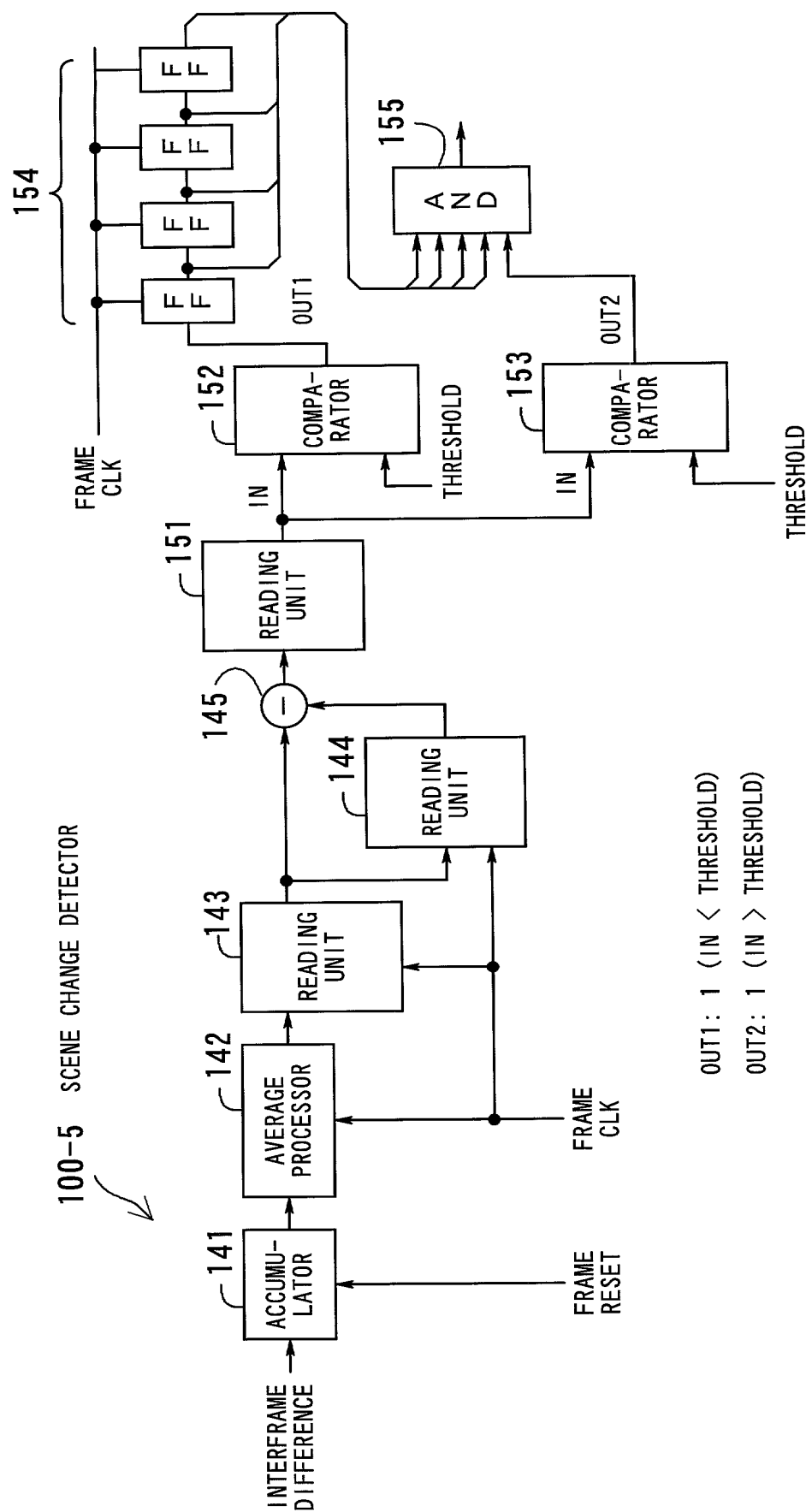




FIG. 14

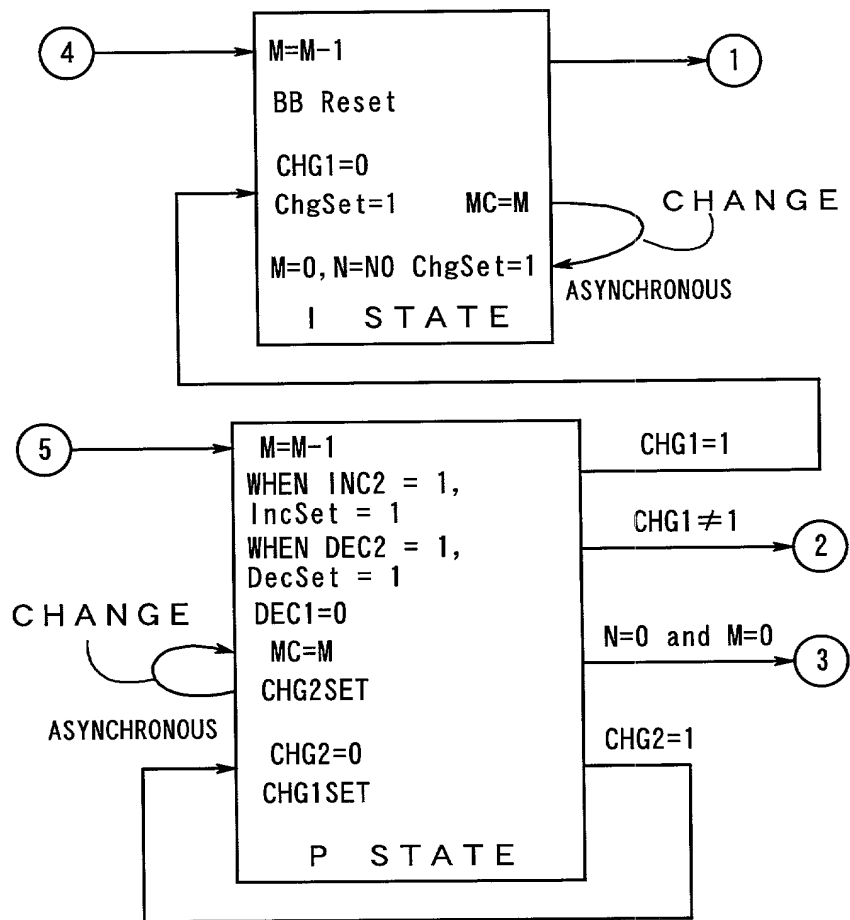


FIG. 15

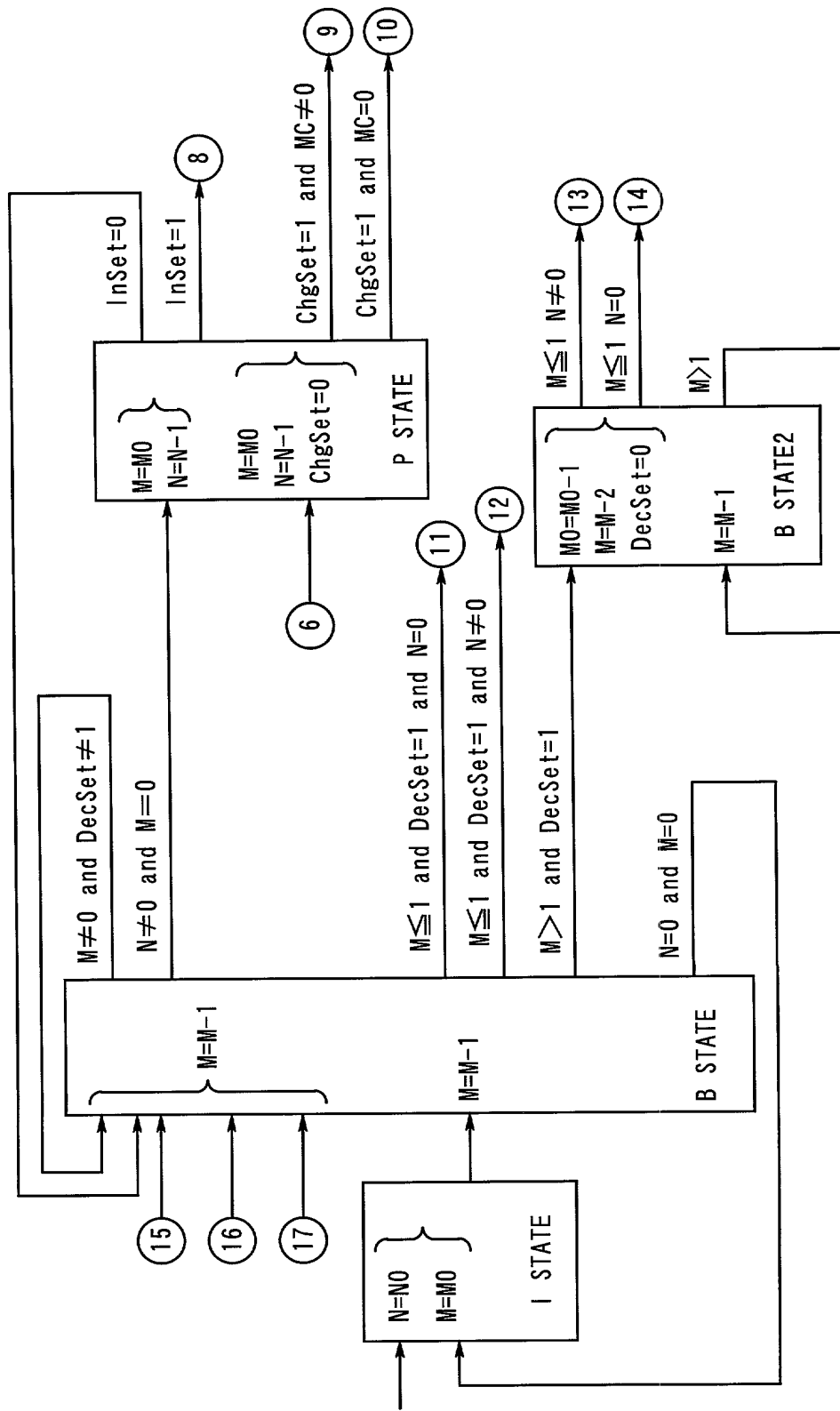


FIG. 16

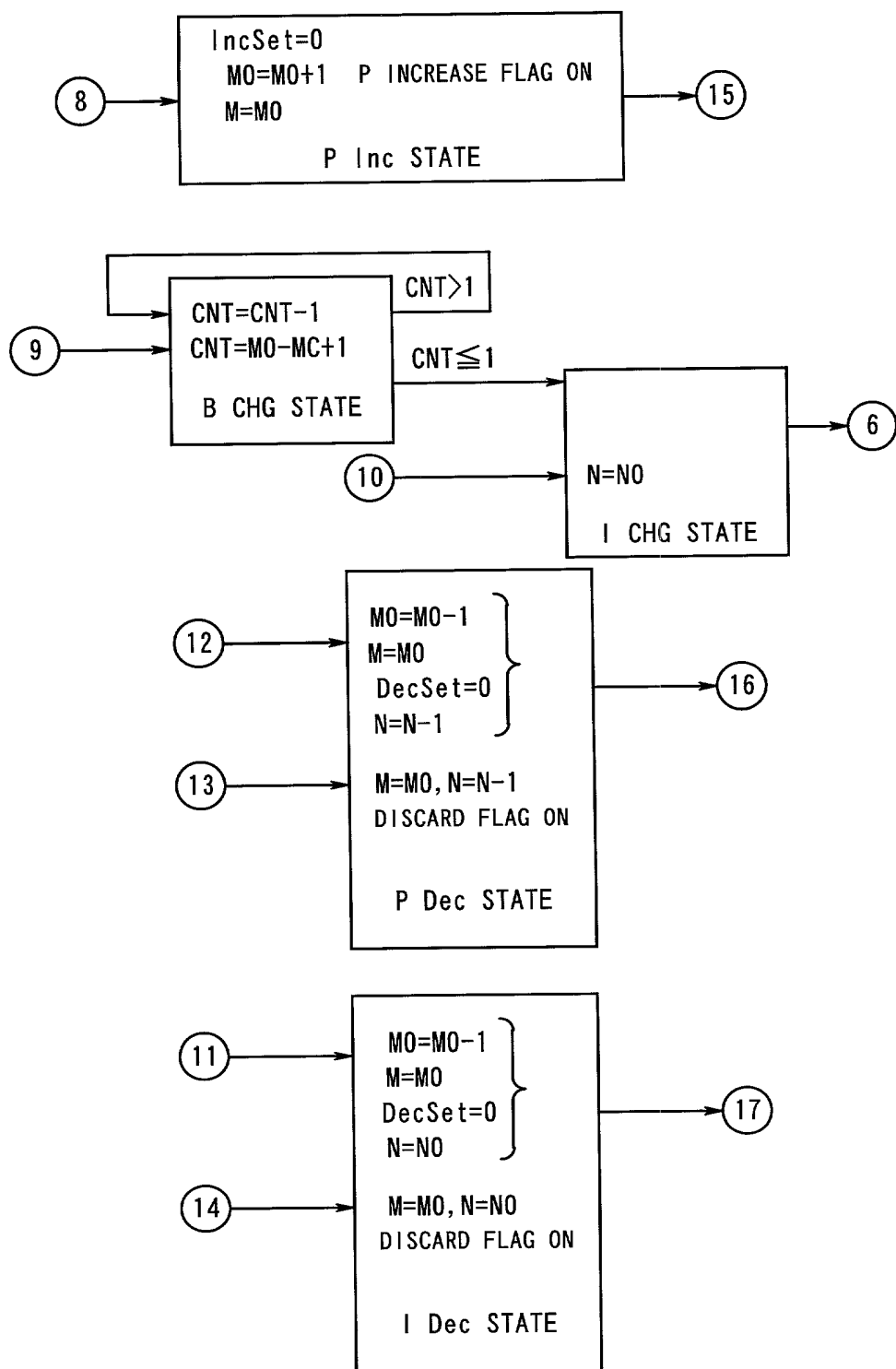


FIG. 17

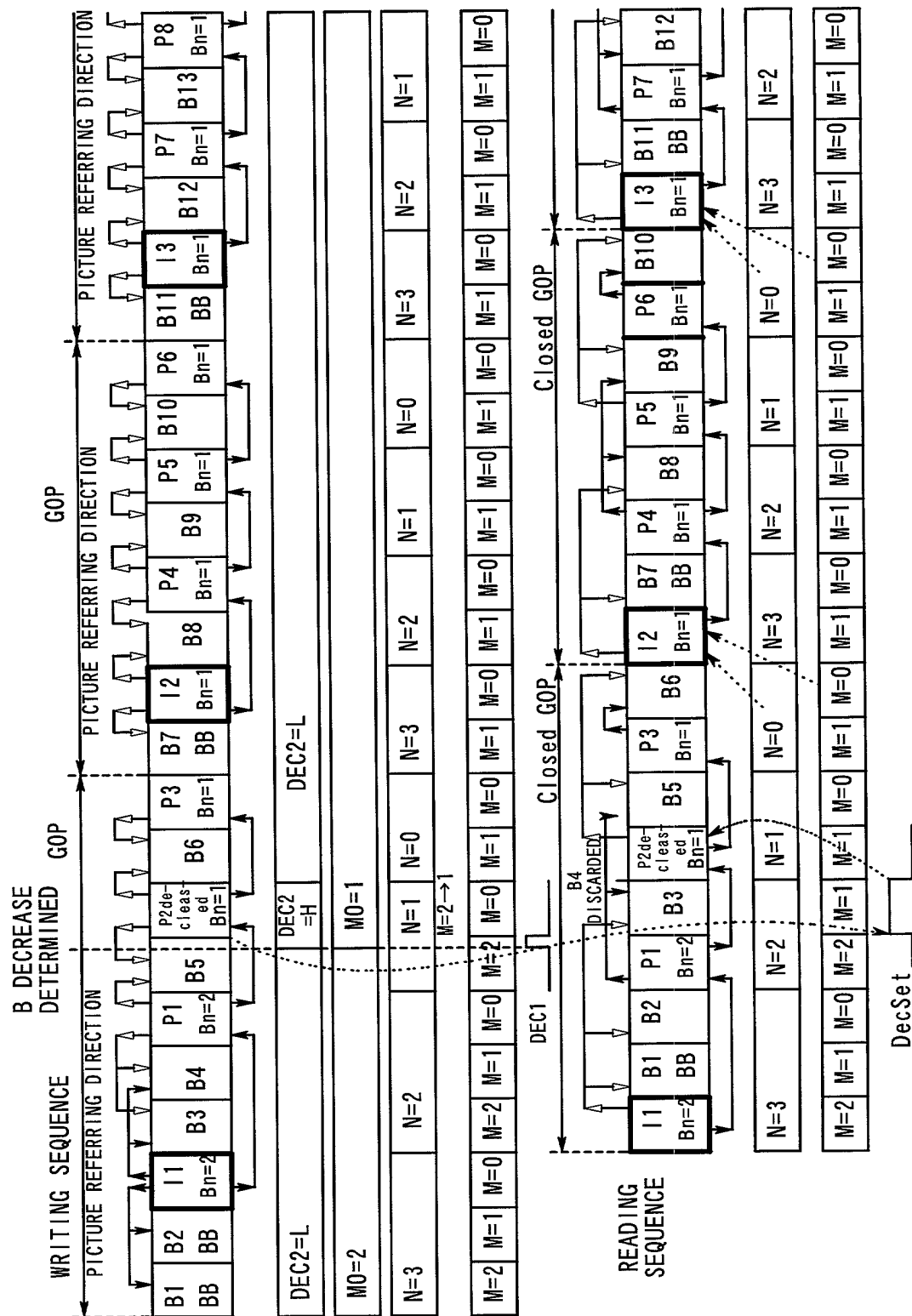
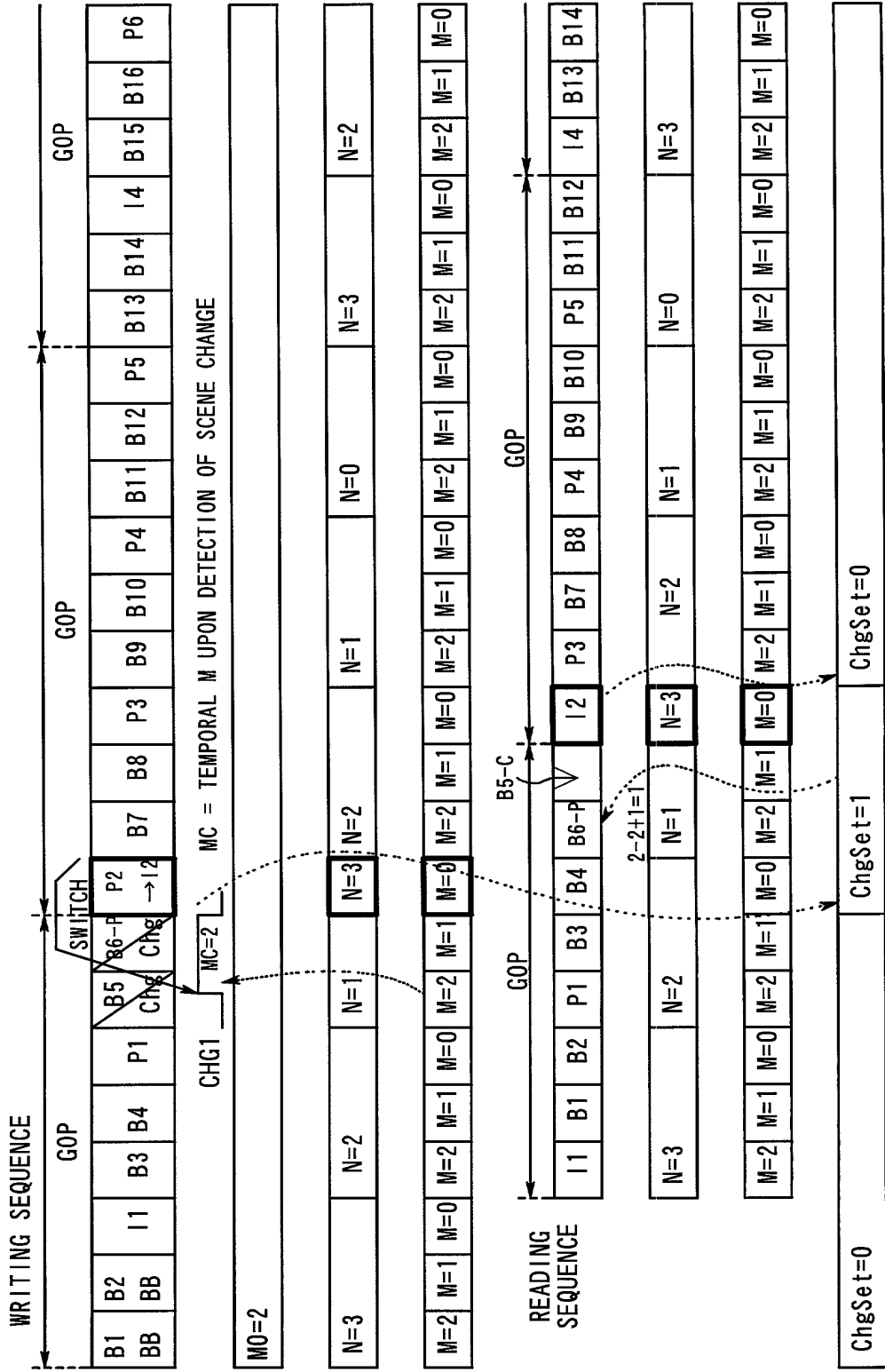


FIG. 19



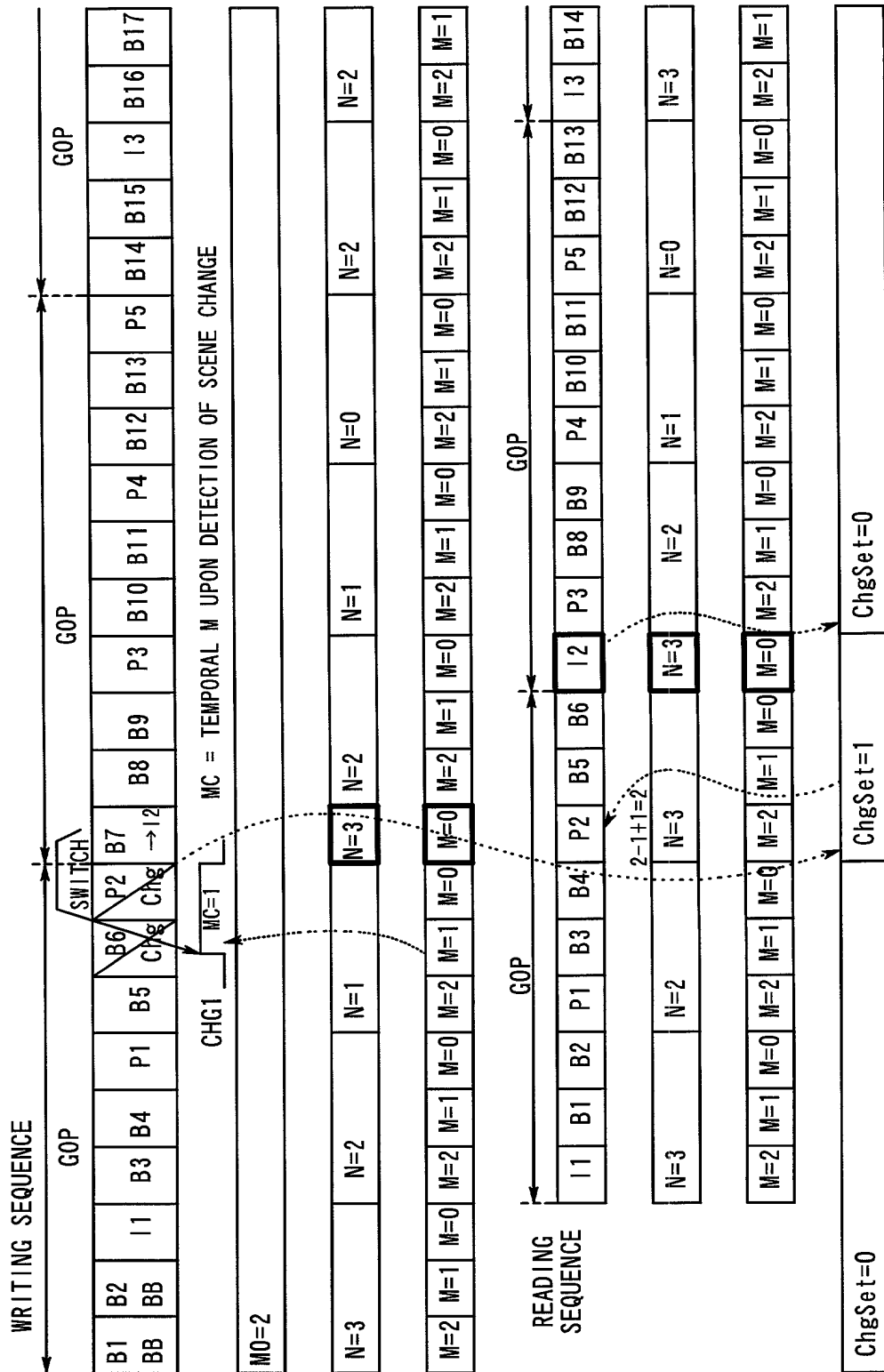


FIG. 21

FIG. 22 is a diagram illustrating a sequence of operations for a video sequence, showing the relationship between writing and reading sequences, and the detection of scene changes.

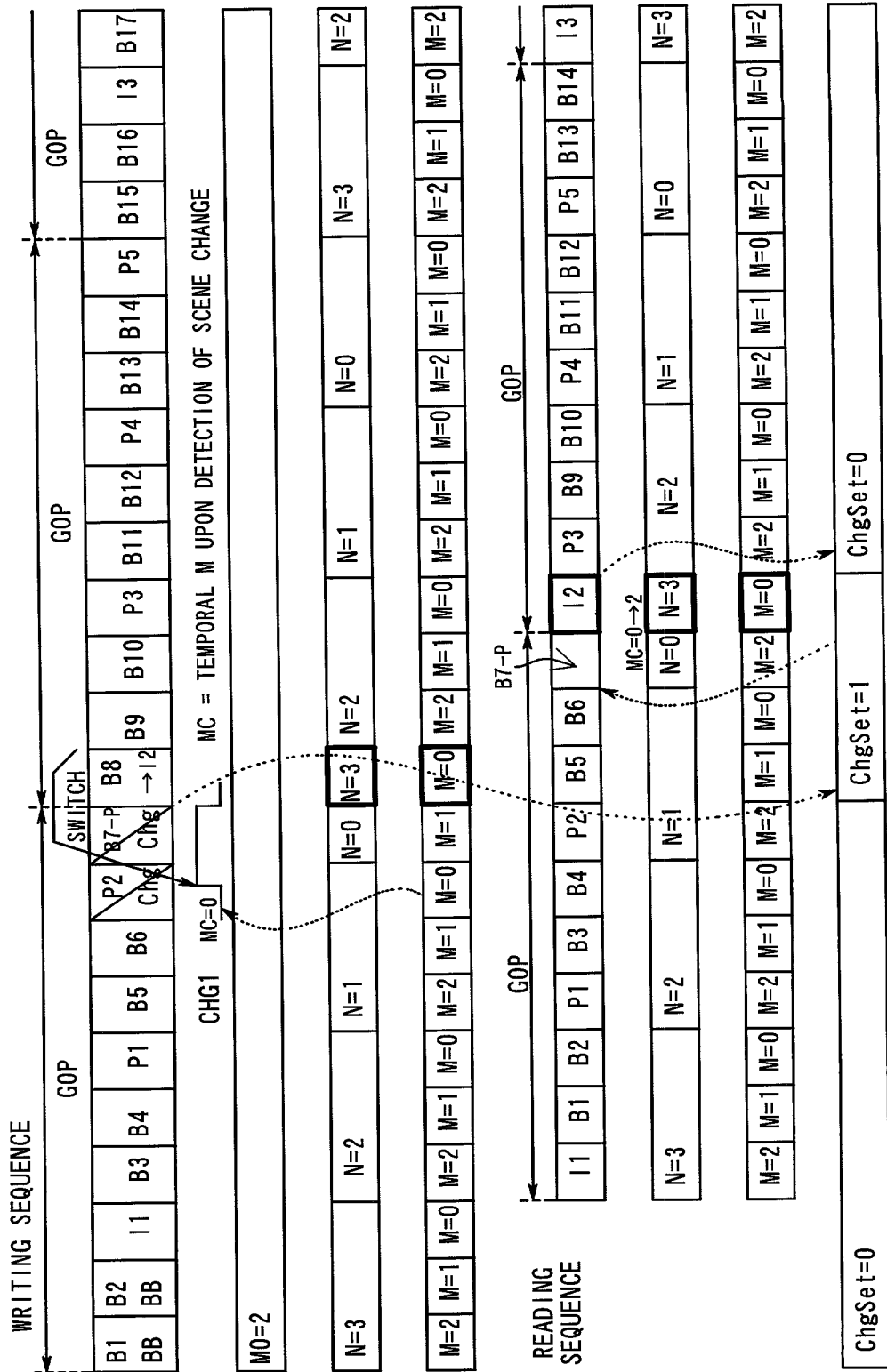


FIG. 22